⊗TDK

(1/2)

Common Mode Filters(SMD) For CAN-BUS/FlexRay

ACT Series ACT45B Type

FEATURES

- Operating temperature range covers from -40 to +150°C.
- Non-dissolution of the abutment amounts in circuit board mounting.
- The products contain no lead and also support lead-free soldering.
- This product conforms to the standards that are slated to be introduced under the RoHS Directive.

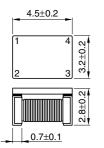
APPLICATIONS

CAN-BUS/FlexRay system, facsimiles, modems, ISDN

PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	2000 pieces/reel

SHAPES AND DIMENSIONS



• No polarity

CIRCUIT DIAGRAM

Weight: 0.14g Dimensions in mm

PRODUCT IDENTIFICATION

ACT45B	- 510 -	2P -	- TL	- 🗆 🗆 🗆
(1)	(2)	(3)	(4)	(5)

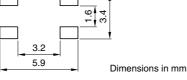
(1) Series name

- (2) Inductance value (typ.)
- (3) Number of line

2P: 2-line

- (4) Packaging style
- TL: ø330mm reel taping
- (5) TDK internal code

RECOMMENDED PC BOARD PATTERN



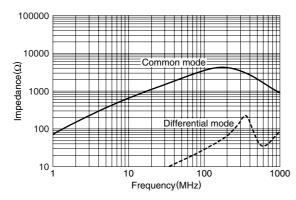


ELECTRICAL CHARACTERISTICS

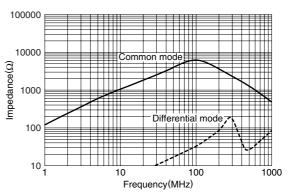
Part No.	Common mode impedance (Ω)[10MHz]		Common mode inductance (µH)+50/–30%	Stray inductance (µH)typ. [100kHz]	DC resistance (Ω)max.	Rated current (A)max.	Insulation resistance (MΩ)min.	Rated voltage (V)max.
	min.	typ.	[100kHz]				(10122/111111.	
ACT45B-110-2P	300	700	11	0.05	0.6	0.25	10	50
ACT45B-220-2P	500	1000	22	0.08	1.0	0.2	10	50
ACT45B-510-2P	1000	2000	51	0.15	1.0	0.2	10	50
ACT45B-101-2P	2000	5000	100	0.20	3.0	0.15	10	50

TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS ACT45B-110-2P

0.65±0.1



ACT45B-220-2P

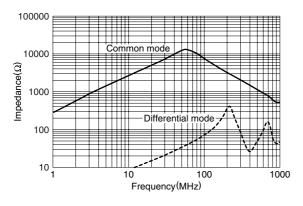


• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

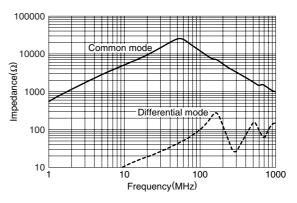
• All specifications are subject to change without notice.

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TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS ACT45B-510-2P



ACT45B-101-2P



• All specifications are subject to change without notice.